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MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
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FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: WHOLE GLUCAN PARTICLES IN COMBINATION WITH ANTIBIOTICS, VACCINES AND VIRAL MONO-
CLONAL ANTIBODIES

(57) Abstract: The present invention relates to compositions and methods of using whole glucan particles and agents. Whole glucan particles enhance the tumoricidal activity of the innate immune system by binding to the C3 complement protein receptor CR3. This binding enhances innate immune system cytotoxicity, as well as stimulating the release of activating cytokines and enhances the bodies response to the agent.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/16229

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 31/715(2006.01);C07H 1/00.

USPC: 514/54,75;424/130.1,165.1,169.1;435/209,4,15,69.1;510/392;536/123.12,23.2,23.5.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/ 54, 75; 424/130.1, 165.1, 169.1; 435/209, 4, 15, 69.1; 510/392; 536/123.12, 23.2, 23.5.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,369,216 B1 (PATCHEN et al) 09 April 2002 (09.04.2002), claims 6-16 and abstract.	1-12
Y	US 5,504,079 A (JAMAS et al) 02 April 1996 (02.04.1996), claims 1-6 and abstract.	1-12
Y	US 5,622,940 A (OSTROFF) 22 April 1997 (22.04.1997), claims 1-30 and abstract.	1-12
Y	US 5,783,569 A (JAMAS et al) 21 July 1998 (21.07.1998), claims 1-80 and abstract.	1-12

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

10 July 2006 (10.07.2006)

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

CAS online, EAST. Search terms used: whole glucan particles; glucan and agents; treatment of influenza, bacterial and viral infection; and ciprofloxacin.